

## **ABSTRACT**

A syringe for use with a powered injector to inject a fluid into a patient that includes a length of material adapted to transmit or propagate electromagnetic energy therethrough. The length of material includes at least a first indicator positioned along the length of material. The first indicator is adapted to interact with at least a portion of the energy being propagated through the length of material in a manner that is detectable. The presence (or absence) of the first indicator provides or corresponds to information about the syringe configuration. The indicator(s) of the present invention can, for example, provide information about syringe configuration by the number and/or position thereof. A plurality or set of such syringes can be provided, with the configuration of each such syringe being represented by the presence or absence of indicator(s) of that syringe.